10

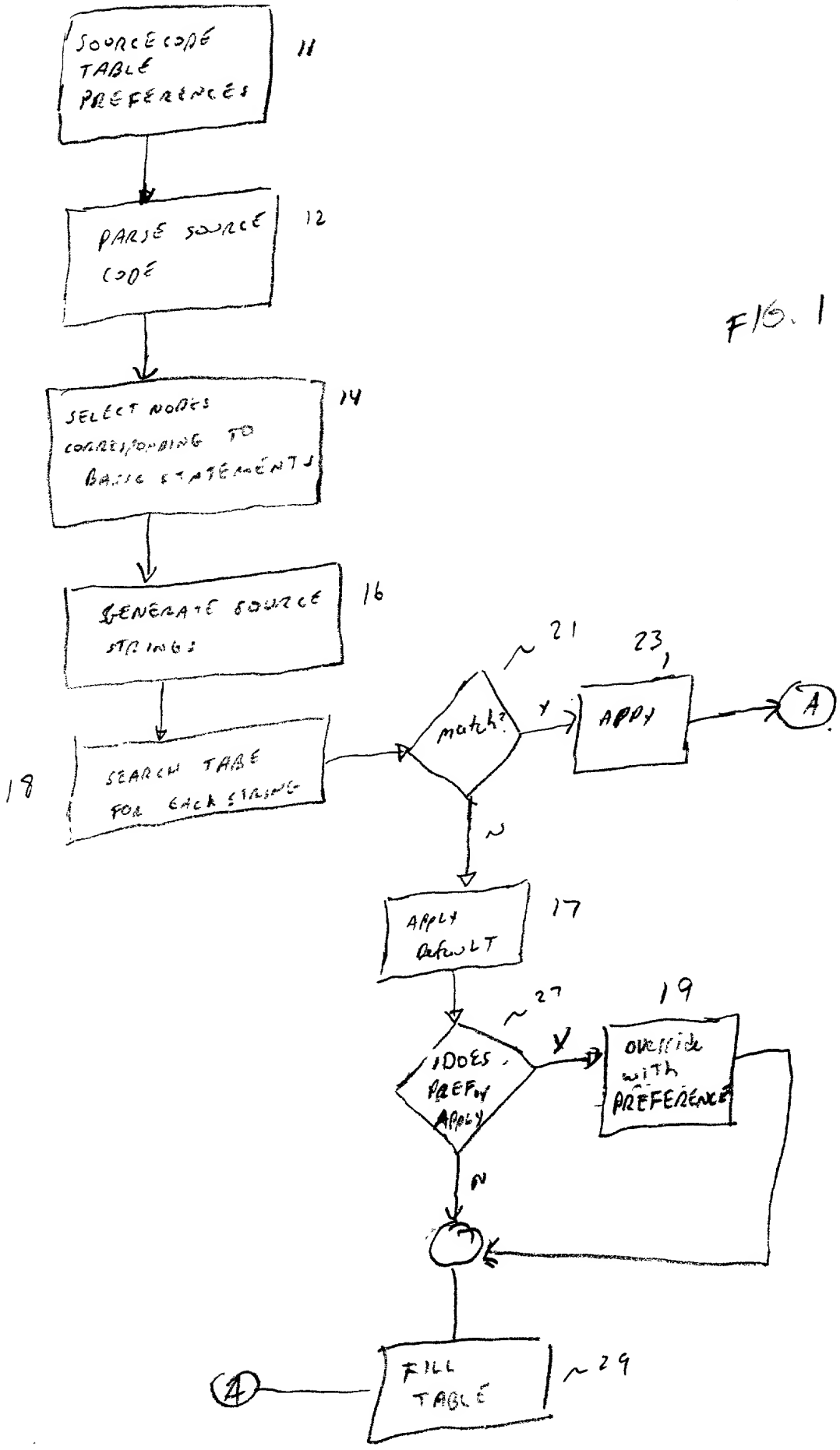

SOURCE CODE TABLE PREFERENCES
11
PARSE SOURCE CODE
12
SELECT NODES CORRESPONDING TO BASIC STATEMENTS
14
GENERATE SOURCE STRINGS
16
SEARCH TABLE FOR EACH STRING
18
match?
21
Y
N
APPLY
23
A
APPLY DEFAULT
17
DOES PREF APPLY
27
Y
N
OVERRIDE WITH PREFERENCE
19
FILL TABLE
29
A

FIG. 1

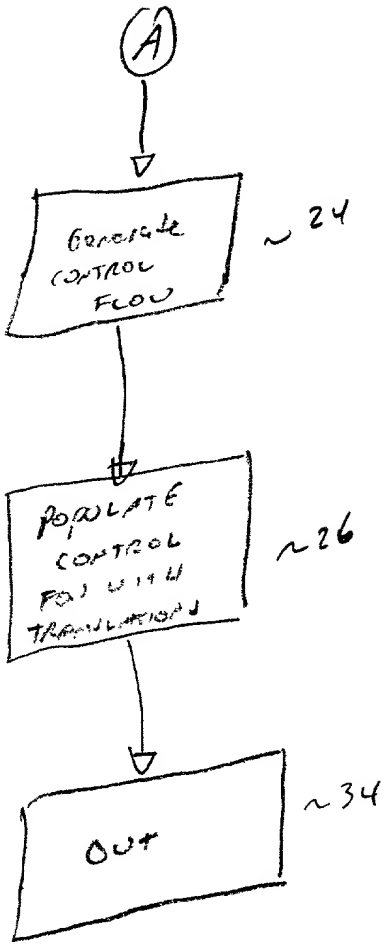
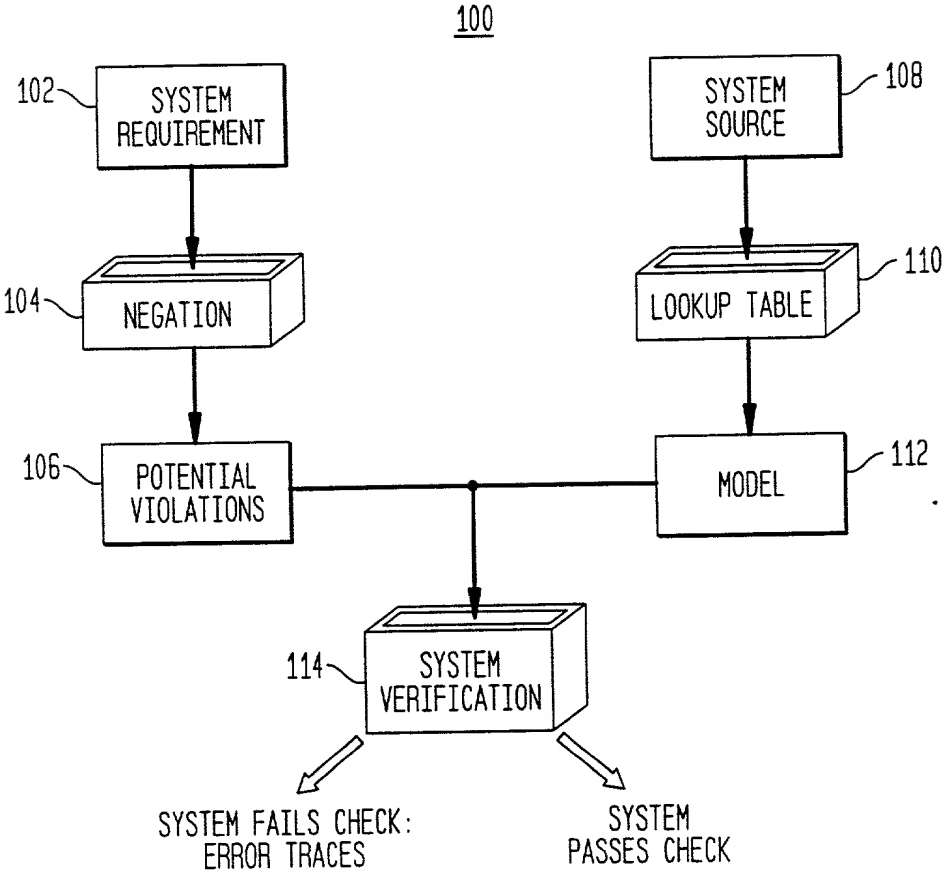

A
GENERATE CONTROL FLOW
~24
POPULATE CONTROL FLOW WITH TRANSLATIONS
~26
OUT
~34

FIG. 2


100
102
SYSTEM REQUIREMENT
104
NEGATION
106
POTENTIAL VIOLATIONS
108
SYSTEM SOURCE
110
LOOKUP TABLE
112
MODEL
114
SYSTEM VERIFICATION
SYSTEM FAILS CHECK: ERROR TRACES
SYSTEM PASSES CHECK